INJURY PREVENTION

"PREVENTION IS THE VACCINE FOR THE DISEASE OF INJURY."

PURPOSE

- DETAIL THE IMPACT OF INJURY ON THE STATE OF MONTANA
- IDENTIFY CONTROL STRATEGIES
- DETAIL INJURY PREVENTION PRINCIPLES
- DISCUSS COMPONENTS OF EFFECTIVE INJURY PREVENTION PROGRAM

OBJECTIVES

- Describe the factors associated with each event of an injury for problem identification
- List three strategies for communicating your injury prevention message to the community
- Identify one way that you can participate in injury prevention

DEFINITIONS

- INJURY IS PHYSICAL DAMAGE FROM THE TRANSFER OF ENERGY
- PREVENTION IS THE ACT OF PREVENTING OR IMPEDING.
- ACCIDENT IS AN UNEXPECTED and UNDESIRABLE EVENT WHICH HAPPENS BY CHANCE.
 - MAYBE A BETTER DEFINITION IS THAT ACCIDENTS RESULT BECAUSE OF A RISK THAT IS POORLY MANAGED.

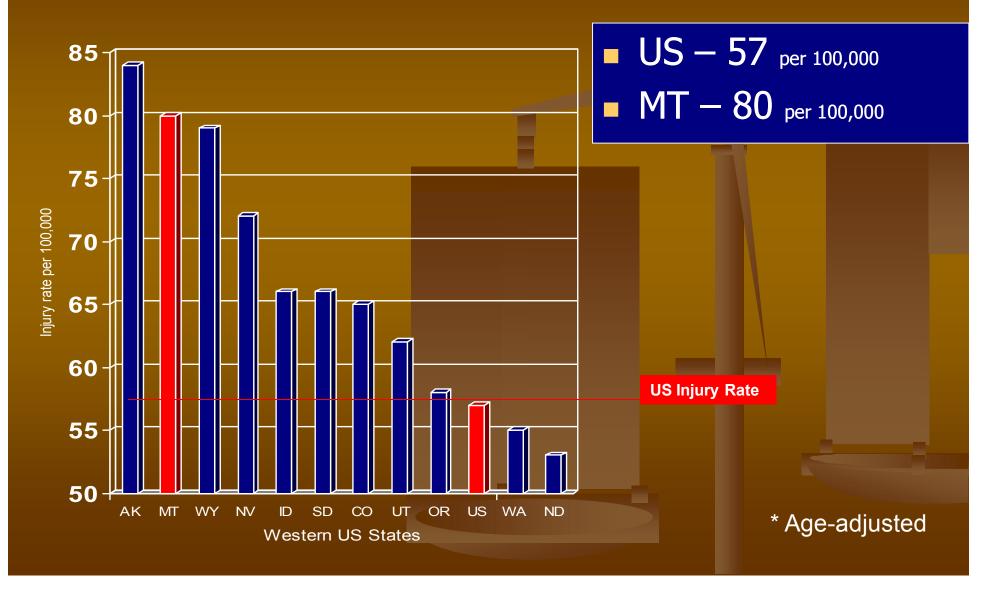
PROBLEM IDENTIFICATION

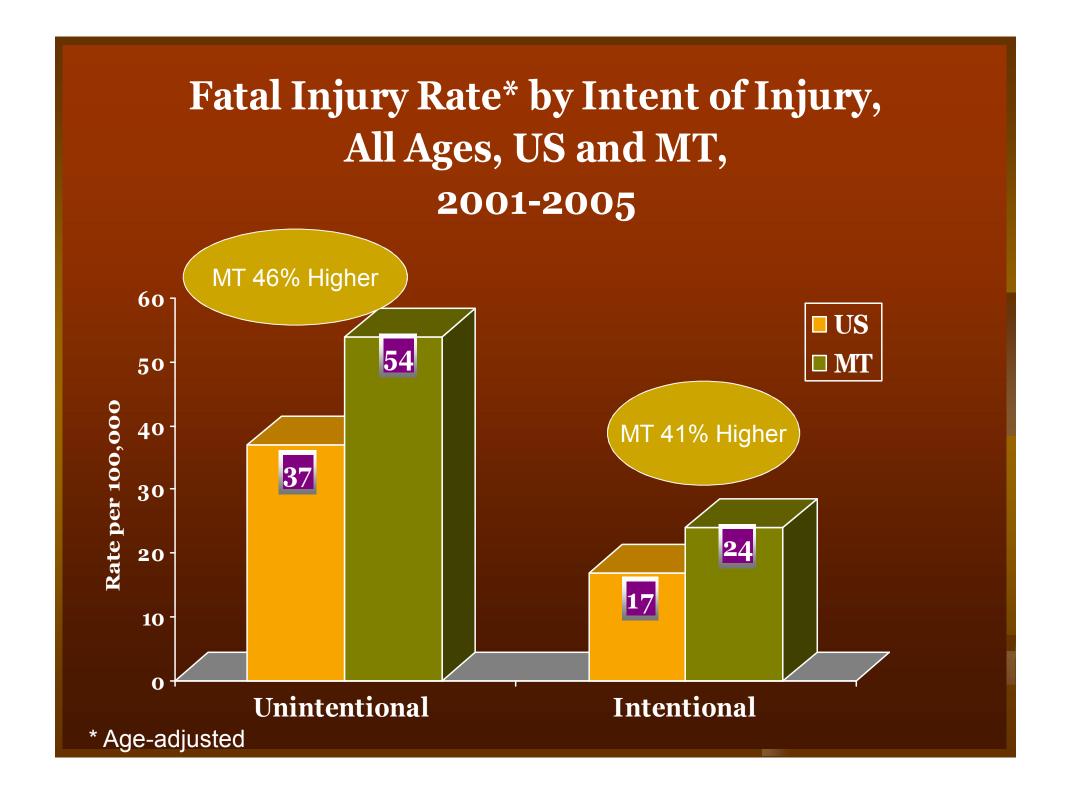
- Injuries can be unintentional or intentional
- Quantitative vs. Qualitative
- Key sources of data in Montana
 - Vital Stats
 - FARS
 - Child Death Review
 - State Trauma Registry
 - Hospital Discharge / Emergency Discharge
 - EMS Data
 - Poison Control
 - Work Comp
 - BRFSS / YRBS

WHAT WE KNOW IN MONTANA

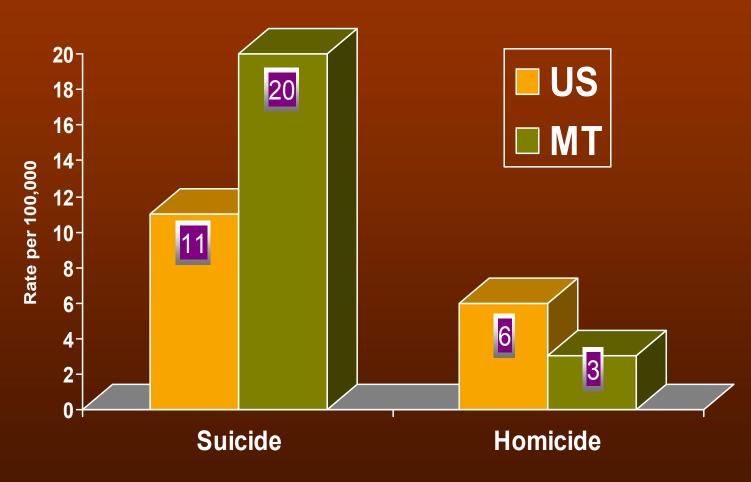
- Unintentional injury is the leading cause of death for ages 1-44
- Motor vehicle crashes are the leading cause of unintentional death and injury
- Falls are the second leading cause of unintentional death and injury

Fatal Injury Rate* on 11 Western States, 2001-2005





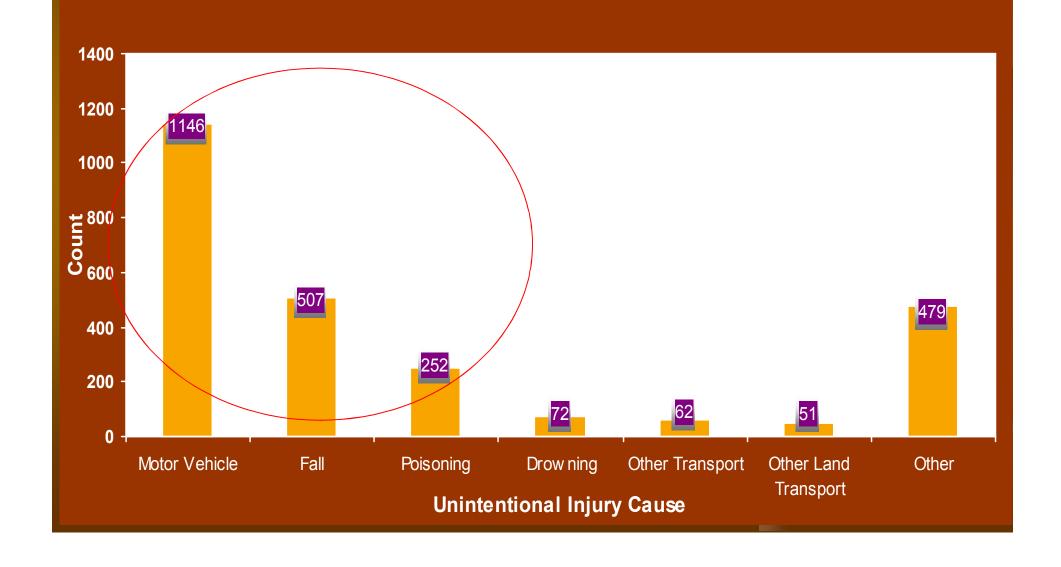
Fatal Intentional Injury Rate*, All ages, US and MT, 2001-2005



Intentional Type

* Age-adjusted

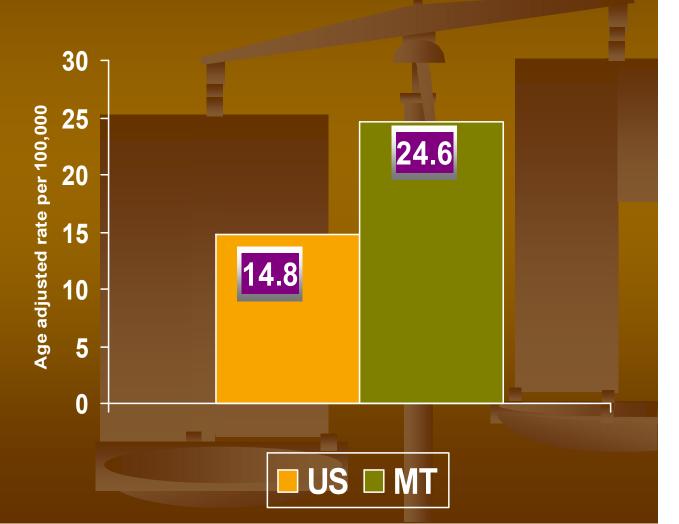
MT Leading Causes of Fatal Unintentional Injury, 2001-2005, N= 2569



Fatal Injury Rate* for Unintentional Motor Vehicle Traffic, All Ages, MT and US, 2001 - 2005

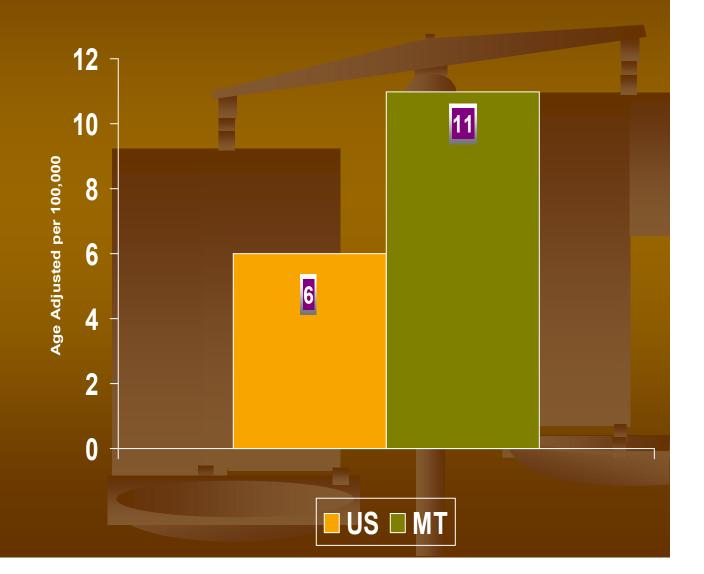
■US - 14.8

■MT - 24.6



Fatal Injury Rate* for Unintentional Falls, all ages, MT and US, 2001 – 2005

- US 6
- MT 11



Data Limitations

Mortality data only

Morbidity data unavailable

or incomplete

Death Tip of the Iceberg Data

Hospital Discharge Data State Trauma Registry

Emergency Department Discharge Data

MT Data Summary

- Unintentional Injuries are the leading cause of death for ages 1-44 years
- Motor vehicle crashes are the leading cause of unintentional injury for all ages and highest among ages 10-34 years
- Falls are the leading cause of death for ages 65 years and older
- Accidental poisoning is highest among ages 25-54 years
- Drowning is highest for ages 1-4 and 5-9 years
- ATV injury death is highest for ages 5-9 years

NOW WHAT



Public Health Approach Health Care Provider's Role

Five steps:

- Define the problem
- Identify risks and protective factors
- Develop interventions
 - Education
 - Engineering
 - Legislation
- Intervene
- Evaluate the effectiveness of the interventions

Indentifying the Opportunities

The Haddon Matrix

	HUMAN	VEHICLE	ENVIRONMENT
PRE-EVENT	AGE EXPERIENCE ALCOHOL DRUGS SPEED	DEFECTS BRAKES TIRES AVOIDANCE SYSTEMS	VISIBILITY PAVEMENT SIGNALS CONSTRUCTION
EVENT	BELT USE HELMET USE TOLERANCE	AIR BAG AUTOMATIC BELTS CRASH-WORTHINESS	GUARDRAILS MEDIANS BREAKAWAY POSTS
POST-EVENT	AGE PHYSICAL CONDITION	POST-CRASH FIRE FUEL LEAKS	EMS SYSTEM FIRST RESPONDER BYSTANDER CARE

Education

- Least effective
- Most used
- Examples
 - Letters to the editor
 - blogs
 - School presentations
 - Legislators
 - Church groups
- Get the Information Out
 - Accurate/factual



- YOUR CHOICE
- Life is Hard, Play Safe
- ThinkFirst
 - Kids, youth, teens
- Trauma Nurses Talk Tough
- Call, Don't Fall

It's Your Choice



A Legacy and a Mission



2009



It's Your Choice!

2009



It's Your Choice!.

-2009

LIFE IS HARD, PLAY SAFE



A BAD COMBINATION...



Texting + Driving = an inTEXTicated driver













- Can be very Effective
- What we have done
 - Testify
 - Harborview study
- What we can do
 - NOT GIVE UP
 - Write letters
 - Educate our communities



- Effective
- Health care providers role
 - Identifying issues
 - Notifying manufacurers
 - Ski helmets defect

A Successful Program

Anatomy of a Successful Program:

- Problem Identification/Needs Assessment
 - Trauma registry
 - State website

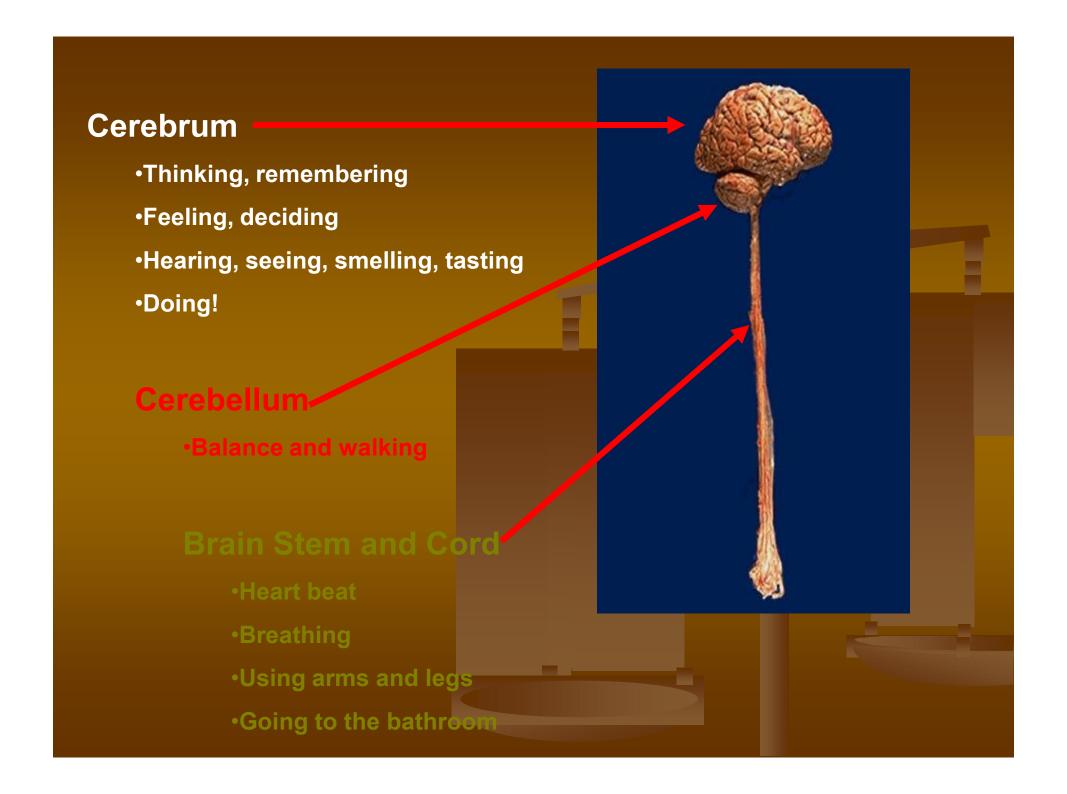
 - Health Department Vital Records
- Determine the patterns of Injury and Your Target Population (who, what, when, where)
 - Set goals
- Collaborate with others who have a shared vision
 - Community-based coalitions
 - Search for financial backers
 - Use the media



- Uncertainty about effectiveness
- Uncertainty about role
- Uncertainty about value
- Uncertainty about time commitment
- Uncertainty about cost
- Lack of PASSION

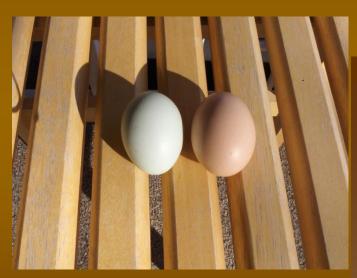


- AGE APPROPRIATE
- RELATIVE AND MEANINGFUL
- FLEXIBLE
- USE TECHNOLOGY
- INTERACTIVE
- PROPS



LET'S PERFORM AN EXPERIMENT

WE WILL NEED TWO EGGS AND ONE BARBIE CAR.





SPEED + NO SEATBELT = ???



Strategies

Examples of effective injury prevention:

- National highway speed limits
- Primary Seat belt laws
- "Cycle" helmet laws
- Child passenger restraint laws
- Apartment window guards
- Smoke detectors
- Violence/penetrating injury programs

Effective Programs

- Community-based, multidisciplinary
- Public information and education
- Accurate, population-based data
- Unique, "homegrown" solutions
- Evaluation and measurement of effectiveness are essential!

Community-based Programs

- Ownership and empowerment
- Novel partnerships and coalitions
- Community-based data about etiology
- Develop/test solutions, interventions
- Consensus-based process
- Implementation and evaluation

Resources

- MT DPHHS Injury Prevention Program
- MT DOT Highway Traffic Safety
- MT Healthy Mothers / Healthy Babies Safe Kids Coalition
- MT Suicide Prevention
- Level II Trauma Centers
- State Injury Prevention Directors Association (STIPDA)
- Children-n-Safety
- Emergency Nurses Association
- Safe Kids World Wide
- American College of Surgeons (ACS)
- National Center for Injury Prevention and Control (NICIPC / CDC)
- Consumer Product Safety Commission
- National Highway Traffic Safety Administration (NHTSA)
- Internet Web sites—"prevention links"

DETERMINE THE OUTCOME

Is what you are doing making a difference?

Did it have an impact

- Go back to your goals.
 - Review
 - Reset
 - Restart

CELEBRATE

